

# Notice of Allowability

Application No.

10/089,154

Examiner

John S. Chu

Applicant(s)

SUZUKI ET AL.

Art Unit

1752

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/30/2003.
2. ☒ The allowed claim(s) is/are 24-49.
3. ☒ The drawings filed on 27 March 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

John S. Chu  
Primary Examiner  
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### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: The claimed invention is drawn to the following:

**Claim 24 (New) A method for producing an organic EL display element, comprising forming an insulating layer from a radiation sensitive composition comprising an alkali-soluble resin having no epoxy group, a 1,2-quinonediazide compound, and at least one compound selected from the group consisting of a melamine compound and an epoxy compound overlying a substrate, and**

**forming an organic EL emitting layer overlying the insulating layer.**

**Claim 32 (New) An organic EL display element comprising an organic EL emitting layer and an insulating film formed from a radiation sensitive composition comprising an alkali-soluble resin having no epoxy group, a 1,2-quinonediazide compound, and at least one compound selected from the group consisting of a melamine compound and an epoxy compound.**

The claimed invention now recites a method for producing an organic EL display element wherein an organic EL emitting layer overlying the insulating layer is now recited. None of the prior art references of record disclose the particularly claimed method for producing an organic EL display element or an organic EL display element comprising said organic EL emitting layer and an insulating film formed from a radiation sensitive composition.

Each of the rejections as given in the previous Office action is withdrawn, wherein none of the references disclose the suggestion to use a radiation sensitive composition as an insulating layer with an organic EL emitting layer overlying the insulating layer. USHIROGOUSHI et al

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and SPAK et al '456 meet the claimed radiation sensitive resin, however the references lack any disclosure for the use of an organic EL emitting layer overlying said radiation sensitive layer.

The new independent claims as recited in claims 24 and 32 now require that the alkali-soluble resin have no epoxy group. In each of the references to NISHIMURA et al, SHIMOKAWA et al an epoxy group is recited to be present in the alkali-soluble resin, thus the rejections fail to meet the now claimed method and element.

Newly cited reference to OKUDA et al discloses making an EL display devices having a polyimide insulating layer comprising a quinone diazide acid generator and a polyimide resin. The reference lacks the disclosure for a crosslinking agent such as a melamine or an epoxy in the insulating layer.

Because none of the references of record disclose the claimed radiation sensitive layer used as an insulating layer overcoated with an organic EL emitting layer, claims 24-49 are now seen as allowable and passed to issue.

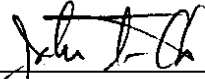
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Chu whose telephone number is (571) 272-1329. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

The fax phone number for the USPTO is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1700.

  
\_\_\_\_\_  
John S. Chu  
Primary Examiner, Group 1700

J.Chu  
May 28, 2004